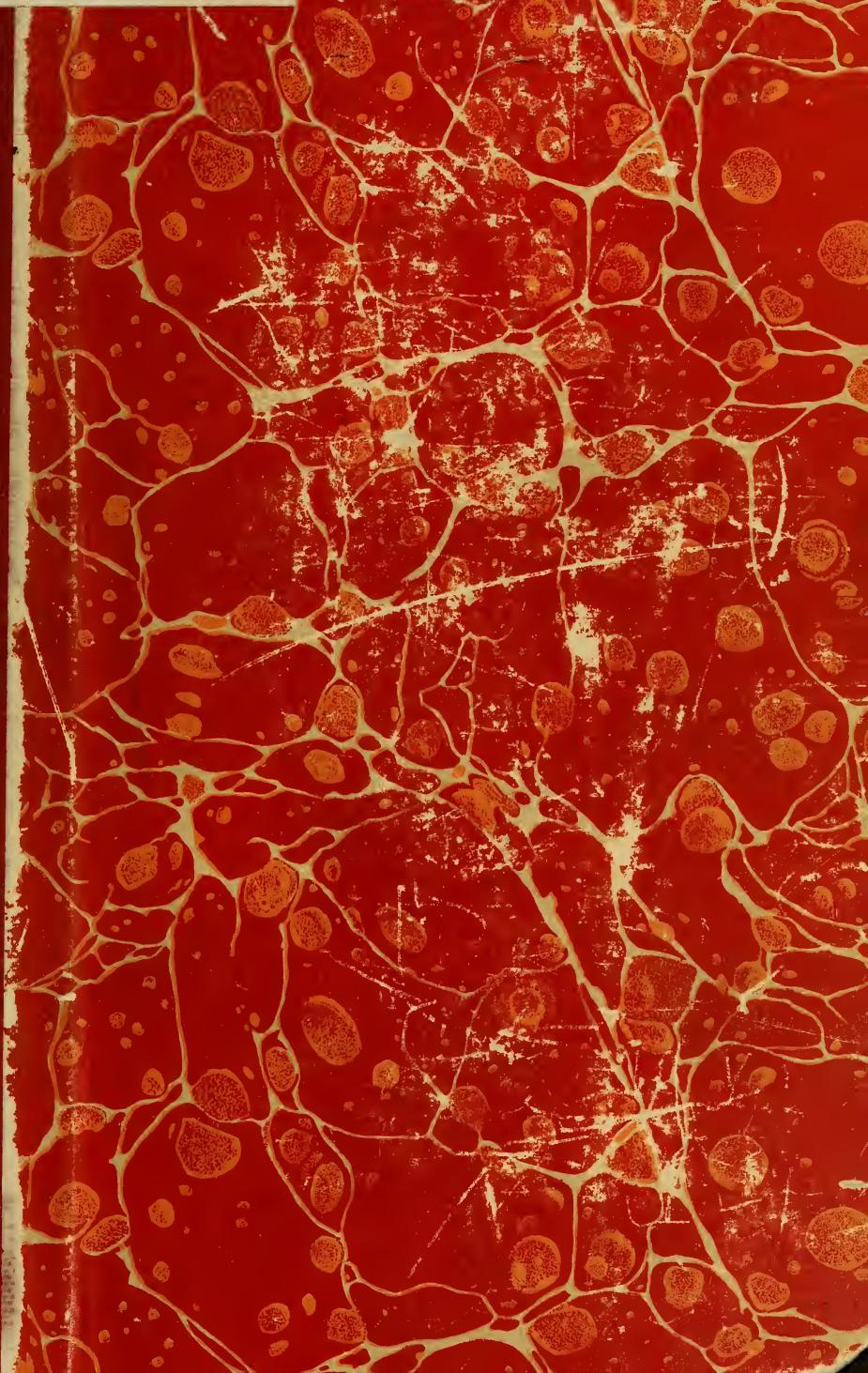


NATIONAL BUREAU OF STANDARDS LIBRARY



A11101 470533





## INDEX TO VOLUME 13

### A

Acidity of soils, RP696.....	125
Acids, effect on silk, RP697.....	151
Acoustical properties of materials, measurement, RP700.....	169
Aerodynamics, automobile models, air forces and yawing moments, RP749.....	871
Aerodynamics, representation of ground effect, RP748.....	863
Aging of carbon steel, RP707.....	259
Aircraft compression members, RP698.....	157
Air, density and refractive index of, RP695.....	111
Air evaporation of volatile mixtures, RP694.....	53
Air forces, measurements on automobile models, RP749.....	871
Air permeability of underwear fabrics, RP711.....	311
Airplane, compression members, RP698.....	157
Air, radiation in as standard of length, RP695.....	111
Air-resistance measurements on vehicle models, RP748.....	863
Alcohols, heats of combustion and of formation of normal aliphatic, RP701.....	189
Alkalies, effect on silk, RP697.....	151
Alloys, electrical resistance, gold-chromium, RP737.....	681
Aluminum, effect of melting conditions on running quality, RP727.....	579
Argon, interference measurements, RP710.....	293
Ash, E. J., C. M. Saeger, Jr., and, Properties of gray cast iron as affected by casting conditions, RP726.....	573
Atomic linkages, energies of, in paraffin hydrocarbons, RP701.....	189
Austenite, aging of, RP707.....	259
Automobile models, air forces and yawing moments on, RP749.....	871
Automobiles, estimates of air forces on, RP749.....	871

### B

Bactericidal effects of X-rays, RP736.....	677
Baebrow, L. E., F. R. Caldwell, Wm. F. Roeser, H. T. Wensel and, Derivation of photometric standards for tungsten-filament lamps, RP699.....	161
Base exchange of clays, RP706.....	245
Bekkedahl, Norman, Forms of rubber as indicated by temperature-volume relationship, RP717.....	411
Benzoic acid, heat of combustion, RP721.....	469
Black body as photometric standard, RP699.....	161
Blaine, Raymond L., Jesse S. Rogers and, Investigation of commercial masonry cements, RP746.....	519
Blum, William, Abner Brenner, Paul W. C. Strausser and, Accelerated tests of nickel and chromium plating on steel, RP724.....	311
—, Paul W. C. Strausser and Abner Brenner, Protective value of nickel and chromium plating on steel, RP712.....	331
Boiling points of water, RP691.....	1
Bond energies, paraffin hydrocarbons, RP692.....	21
Branham, Joseph R., and Martin Shepherd, Critical study of the determination of ethane by explosion with oxygen or air, RP715.....	377
Brenner, Abner, William Blum, Paul W. C. Strausser and, Accelerated tests of nickel and chromium plating on steel, RP724.....	519
—, Paul W. C. Strausser, William Blum and, Protective value of nickel and chromium plating on steel, RP712.....	331
Brick, fire-clay, elasticity of, RP747.....	851
Bridgeman, Oscar C., Equilibrium volatility of motor fuels from the standpoint of their use in internal combustion engines, RP694.....	53
Brightness meter for luminous materials, RP702.....	208

### Page

Brightness of black bodies, RP699.....	161
Broadcast frequencies, field intensity records, RP752.....	897
Bubble points, volatile mixtures, RP694.....	53
Bunting, E. N., A. S. Creamer, R. F. Geller and, The system: PbO-SiO <sub>2</sub> , RP705.....	237
C	
Caldwell, F. R., Wm. F. Roeser, L. E. Baebrow, H. T. Wensel and, Derivation of photometric standards for tungsten-filament lamps, RP699.....	161
Calibrations of length standards, RP743.....	757
Calorimeters, calibration of, RP721.....	469
Candlepower of tungsten lamps, RP699.....	161
Carbon disulphide, ionization, RP733.....	659
Carbon steel, tempering and aging of, RP707.....	259
Carbon, thermal expansion, RP693.....	37
Casting conditions, effect on properties of gray cast iron, RP726.....	573
Cathode-ray oscilloscope, compensating coils for, RP716.....	391
Cells, standard, temperature control, RP739.....	699
Cement, pastes, RP746.....	811
Cements, chemical composition, RP746.....	811
Cements, fineness, RP746.....	811
Cements, masonry, properties of, RP746.....	811
Christler, V. L., Dependence of sound absorption upon the area and distribution of the absorbent material, RP700.....	169
Chromium and nickel plating on steel, tests, RP724.....	519
Chromium-gold resistance alloys, RP737.....	681
Chromium plating, protective value, RP712.....	331
Clays, colloidal nature and related properties, RP706.....	245
Clyne, Robert W., Dunlap J. McAdam, Jr., and, Influence of chemically and mechanically formed notches on fatigue of metals, RP725.....	527
Coblenz, W. W., and R. Stair, Ultraviolet transmission changes in glass as a function of the wave length of the radiation stimulus, RP744.....	773
Coil arrangements for producing uniform magnetic field, RP716.....	391
Cold-working, effect on indentation hardness of copper, RP742.....	745
Colloids, clay, nature of, RP706.....	245
Color grading, standard glasses for, RP718.....	433
Columns, free length, RP698.....	157
Combustion, heat of, benzoic acid, RP721.....	469
Combustion, heats of, rubber and rubber-sulphur compounds, RP713.....	357
Combustion, heats of, of normal aliphatic alcohols, RP701.....	189
Comparator, National Bureau of Standards, RP743.....	757
Compression members, design, RP698.....	157
Compression tests of steel at elevated temperatures, RP741.....	713
Conductivity, electrical, of sulphuric acid, RP738.....	689
Copper, effect of cold-rolling on hardness, RP742.....	745
Corrosion in acid soils, RP696.....	125
Corrosion of steel, RP712.....	331
Craig, D. Norman, George W. Vinal and, Resistivity of sulphuric-acid solutions and its relation to viscosity and temperature, RP738.....	689
Creamer, A. S., E. N. Bunting, R. F. Geller and, The system: PbO-SiO <sub>2</sub> , RP705.....	237
Crystallization of gallium, RP734.....	665

Page	G	Page	
Crystallization of rubber, { RP717. RP719. RP720.	Gallium, freezing point, RP735. Gallium, melting point, RP734. Gallium, purification, RP734.	673 665 665	
Crystals of copper, hardness of single, RP742. <i>Cummings, Arthur D., Ralph S. Jessup and,</i> Heats of combustion of rubber and of rubber-sulphur compounds, RP713. <i>Curtiss, L. F.,</i> A brightness meter for luminous preparations, RP702.	Gas analysis, determination of ethane by explosion, RP715. Gas-cell fabrics, permeability to hydrogen, RP750.	377 879	
Cyclopentane, derivatives of, RP745.	Gases, noble, spectra of, RP710.	293	
Cyclopentane, nonanaphthene, RP745.	Gasolines, volatility, RP694.	53	
<b>D</b>		Geller, R. F., A. S. Creamer, and E. N. Bunting, The system $PbO-SiO_2$ , RP705.	237
Decimeter calibration, RP743.	Gel rubber hydrocarbon { RP719. RP720.	453 453	
Decomposition of silk, RP697.	Gibson, Kasson S., and Geraldine Walker Haupt, Standardization of Lovibond red glasses in combination with Lovibond 35 yellow, RP718.	465 433	
Demagnetization, drift of permeability after, RP714.	Glass, transmission changes by ultraviolet radiation, RP744.	773	
<i>Denison, I. A., and R. B. Hobbs,</i> Corrosion of ferrous metals in acid soils, RP696.	Glasses, Lovibond, standardization of, RP718.	433	
Density of air, variations, RP695.	Gold-chromium resistance alloys, RP737.	681	
Deuterium concentration, RP729.	Graphite, thermal expansion, RP693.	37	
Dew points, volatile mixtures, RP694.	Green, Carleton B., <i>Ralph S. Jessup and,</i> Heat of combustion of standard sample benzoic acid, RP721.	469	
Diamond, thermal expansion, RP693.	Ground effect in wind tunnel tests, RP748.	863	
Diffusing media, properties, RP704.	<b>H</b>		
Dilatometer for volume change of rubber, RP717.	Hafnium (Hf II) second spectrum, RP732.	625	
Diurnal variation of field intensity at broadcast frequencies, RP752.	Hamlin, Charles H., and Ruby K. Worner, Properties of knit underwear fabrics of various construction, RP711.	311	
Double refraction of rubber, RP751.	Hardness (Vickers number), cold-rolled copper, RP742.	745	
<i>Drake, Nathan L., Gordon M. Kline and,</i> Polymerization of olefins formed by the action of sulphuric acid on methylisopropylcarbinol, RP740.	Harris, Forest K., Coil arrangements for producing a uniform magnetic field, RP716.	391	
<b>E</b>		Harris, Milton, Photochemical decomposition of silk, RP697.	151
Elasticity of fire-clay brick, effect of silica on, RP747.	Haupt, Geraldine Walker, Kasson S. Gibson and, Standardization of Lovibond red glasses in combination with Lovibond 35 yellow, RP718.	433	
Elasticity of refractories, RP747.	Heald, Roy H., Air forces and yawing moments for three automobile models, RP749.	433	
Electrical resistance alloys, RP737.	—, Comparison of the ground-plane and image methods for representing ground effect in tests on vehicle models, RP748.	863	
Electrical resistivity of sulphuric acid, RP738.	Heat of combustion, benzoic acid, RP721.	469	
Electrodes, graphite, thermal expansion, R. P693.	Heats of combustion and of formation of normal aliphatic alcohols, RP701.	189	
Electrolysis of gallium, RP734.	Heats of combustion, paraffin hydrocarbons, RP692.	21	
Electrolytic isotopic fractionation of hydrogen and oxygen, RP729.	Heats of combustion of rubber and rubber-sulphur compounds, RP713.	357	
Electromotive force, maintenance of standard, RP739.	Heats of formation, paraffin hydrocarbons, RP692.	21	
Electroplating, protective value, RP712.	Heat transmission of underwear fabrics, RP711.	311	
<i>Ellinger, G. A., and R. L. Sanford,</i> Prolonged tempering at 100° C and aging at room temperature of 0.8 percent carbon steel, RP707.	Heavy water, refractivity, RP703.	207	
Engines, internal combustion, volatility of fuels for, RP694.	Heindl, Raymond A., and William L. Pendergast, Young's modulus of elasticity at several temperatures for some refractories of varying silica content, RP747.	851 293	
Expansion coefficient of rubber, RP717.	Helium, interference measurements, RP710.	851	
Expansion, thermal, autographic apparatus for measuring, RP722.	<i>Hidner, Peter, James Fulton Fox, Wilmer Souder and,</i> Autographic thermal expansion apparatus, RP722.	497	
Expansion, thermal, of graphite and carbon, RP693.	—, Thermal expansion of artificial graphite and carbon, RP693.	37	
Exposure tests of plated steel, RP712.	<i>Hobbs, R. B., I. A. Denison and,</i> Corrosion of ferrous metals in acid soils, RP696.	125	
Ethane, determination by explosion methods, RP715.	Hoffman, James I., Preparation of pure gallium, RP734.	665	
Ether-insoluble rubber, { RP719. RP720.	—, <i>Wm. F. Roeser and,</i> Freezing point of gallium, RP735.	665	
<b>F</b>		Holt, William L., <i>W. Harold Smith and,</i> Vulcanization and stress-strain behavior of sol, gel, and total rubber hydrocarbon, RP720.	465
Fabrics, gas-cell, RP750.	Humphreys, C. J., <i>William F. Meggers and,</i> Interference measurements in the spectra of noble gases, RP710.	465	
Fabrics, silk, photochemical decomposition, RP697.	Hydrocarbon, rubber, { RP717. RP719. RP720.	411 453 465	
Fabrics, underwear, properties, RP711.	Hydrocarbons, critical solution temperatures, RP728.	589	
Fatigue of metals, influence of notches, RP725.	Hydrocarbons, energies of atomic linkages of normal gaseous paraffin, RP692.	21	
Ferrous metals, soil corrosion, RP696.			
Films, oxide, influence on wear of steels, RP708.			
Filters used in photometry, RP699.			
Formation of normal aliphatic alcohols, heats of, RP701.			
<i>Fox, James Fulton, Peter Hidner, Wilmer Souder and,</i> Autographic thermal expansion apparatus, RP722.			
Fractionation, isotopic, hydrogen and oxygen, RP729.			
Freezing metals, use of, in photometry, RP699.			
Freezing point of gallium, RP735.			
Frequencies, radio, field intensity records, RP752.			
Fuel, volatility, RP694.			
Fuselage, design of compression members, RP698.			

	Page		Page		
Hydrocarbons, heats of combustion, RP692--	21	McNicholas, H. J., Equipment for measuring the reflective and transmissive properties of diffusing media, RP704--	211		
Hydrocarbons, nonanaphthalene, RP745--	799	McPherson, Archibald T., Wilfred E. Thibodeau and, Photoelastic properties of soft, vulcanized rubber, RP751--	887		
Hydrocarbons, paraffin, heats of combustion and formation, RP692--	21	Magnetic changes in steel, RP707--	259		
Hydrocarbons, petroleum, RP745--	189	Magnetic field, uniform, RP716--	391		
Hydrogen, isotopic fractionation, RP729--	599	Magnetic permeability, RP714--	371		
Hydrogen, permeability of synthetic films to, RP750--	879	Materials, sound absorbing, RP700--	169		
<b>I</b>					
Indentation hardness of copper, RP742--	745	Mease, Ralph T., Determination of sulphur and sulphate in wool, RP731--	617		
Intensities, field, of radio waves at broadcast frequencies, RP752--	897	Mechanical equivalent of light, RP699--	161		
Interference measurements, RP710--	293	Meggers, William F., and C. J. Humphreys, Interference measurements in the spectra of noble gases, RP710--	293		
Internal combustion engines, volatility of motor fuels for, RP694--	53	—, and Bourdon F. Scribner, Second spectrum of hafnium (Hf II), RP732--	625		
Ionization of liquid carbon disulphide, RP733--	659	Melting conditions, effect on running quality of aluminum, RP727--	579		
Iridium, freezing point, RP699--	161	Melting point of gallium, RP734--	665		
Iron, gray cast, effect of casting conditions on properties, RP726--	573	Metal, effect of heating temperature on running quality, RP727--	579		
Isbell, Horace S., A note on the purification of $\alpha$ -D-xylose and its mutarotation, RP723--	515	Metal (iron), effect of heating temperatures on properties of, RP726--	573		
Isotopes, hydrogen and oxygen, fractionation, RP729--	599	Metals, ferrous, soil corrosion of, RP696--	125		
Isotopic forms of water, properties of, RP703--	207	Metals, influence of notches on fatigue of, RP725--	527		
<b>J</b>					
Jessup, Ralph S., and Arthur D. Cummings, Heats of combustion of rubber and of rubber-sulphur compounds, RP713--	357	Metals, wear of, RP708--	267		
— and Carleton B. Green, Heat of combustion of standard sample benzoic acid, RP721--	469	Meter, prototype, recomparison of, RP743--	757		
Jordan, Louis, Samuel J. Rosenberg and, Influence of oxide films on the wear of steels, RP708--	267	Meyer, W. W., Colloidal nature and related properties of clays, RP706--	245		
Judd, Deane B., Opacity standards, RP709--	281	Meyers, Cyril H., Nathan S. Osborne and, A formula and tables for the pressure of saturated water vapor in the range 0 to 374° C, RP691--	1		
Judson, Lewis V., and Benjamin L. Page, Calibrations of the line standards of length of the National Bureau of Standards, RP743--	753	Methylisopropylcarbinol, action of sulphuric acid on, RP740--	705		
<b>K</b>					
Kirby, Samuel S., Gordon H. Lester, Kenneth A. Norton and, An analysis of continuous records of field intensity at broadcast frequencies, RP752--	897	Misregister in offset lithography, RP730--	609		
Kline, Gordon M., and Nathan L. Drake, Polymerization of olefins formed by the action of sulphuric acid on methylisopropylcarbinol, RP740--	705	Models, vehicle, wind-tunnel measurements (RP748--)	863		
Kryszta, A. I., and C. M. Saeger, Jr., Effect of melting conditions on the running quality of aluminum cast in sand molds, RP727--	579	Moher, Fred L., and Lauriston S. Taylor, A note on bactericidal effects of X-rays, RP736--	871		
Krypton, interference measurements, RP710--	293	—, and Lauriston S. Taylor, Ionization of liquid carbon disulphide by X-rays, RP733--	659		
<b>L</b>					
Lamp standards, RP699--	161	Mortars, absorption, RP746--	811		
Lead acetate in preparing xylose, RP723--	515	Mortars, durability to freezing and thawing, RP746--	811		
Lead oxide, silica system, RP705--	237	Mortars, efflorescence, RP746--	811		
Length standard, use of radiation in air as, RP695--	111	Mortars, masonry cement, RP746--	811		
Length standards, RP743--	757	Mortars, properties of, RP746--	811		
Leslie, R. T., Critical solution temperatures of some hydrocarbons in sulphur dioxide, RP728--	589	Motor fuels, volatility, RP694--	53		
Lester, Gordon H., Samuel S. Kirby, Kenneth A. Norton and, An analysis of continuous records of field intensity at broadcast frequencies, RP752--	897	Mueller, E. F., and H. F. Stimson, A temperature control box for saturated standard cells, RP739--	699		
Light, effect on silk, RP697--	151	Mutarotation of xylose, RP723--	515		
Light sources for photometry and spectro-photometry, RP704--	211	<b>N</b>			
Light standards, RP699--	161	Neon, interference measurements, RP710--	293		
Light transmission, RP709--	281	Nickel and chromium plating on steel, tests, RP724--	519		
Line standards of length, RP743--	757	Nickel plating, protective value, RP712--	331		
Lithographic papers, RP730--	609	Nonanaphthalene, isolation from petroleum, RP745--	799		
Lovibond glasses, RP718--	433	Nonanaphthalene, properties, RP745--	799		
Luminous material, determination of brightness, RP702--	203	Norton, Kenneth A., Samuel S. Kirby, and Gordon H. Lester, An analysis of continuous records of field intensity at broadcast frequencies, RP752--	897		
<b>M</b>					
McAdam, Dunlop J., Jr., and Robert W. Clyne, Influence of chemically and mechanically formed notches on fatigue of metals, RP725--	527	Notches, influence on fatigue of metals, RP725--	527		
<b>O</b>					
Olefins, polymerization of, RP740--	211	Olefins, polypropylene, RP740--	705		
Opacity standards, RP709--	161	Opacity standards, RP709--	281		
Optical rotation of xylose, RP723--	281	Optical rotation of xylose, RP723--	515		
Osborne, Nathan S., and Cyril H. Meyers, A formula and tables for the pressure of saturated water vapor in the range 0 to 374° C, RP691--	609	Oscillograph, cathode-ray, compensating coils for, RP716--	391		
Osgood, Wm. R., Contribution to the design of compression members in aircraft, RP698--	433	Oxide films, influence on wear of steels, RP708--	157		
Oxygen, isotopic fractionation, RP729--	527	Oxygen, oxygen, isotopic fractionation, RP729--	267		

P	S	Page
<i>Page, Benjamin L., Lewis V. Judson and, Calibrations of the line standards of length of the National Bureau of Standards, RP743.</i>	<i>Sager, Theron P., Permeability of synthetic film-forming materials to hydrogen, RP750.</i>	879
<i>Paper for offset printing, RP730.</i>	<i>Saege, C. M., Jr., and E. J. Ash, Properties of gray cast iron as affected by casting conditions, RP726.</i>	573
<i>Paper, opacity standards for, RP709.</i>	<i>—, A. I. Krynnitsky and, Effect of melting conditions on the running quality of aluminum cast in sand molds, RP727.</i>	579
<i>Pendergast, William L., Raymond A. Heindl and, Young's modulus of elasticity at several temperatures for some refractories of varying silica content, RP747.</i>	<i>Sale, Prentiss D., Compression tests of structural steel at elevated temperatures, RP741.</i>	713
<i>Permeability, magnetic, RP714.</i>	<i>Sanford, Raymond L., Drift of magnetic permeability at low inductions after demagnetization, RP714.</i>	371
<i>Permeability of soils, RP696.</i>	<i>—, G. A. Ellinger and, Prolonged tempering at 100° C and aging at room temperature of 0.8 percent carbon steel, RP707.</i>	259
<i>Permeability of synthetic films to hydrogen, RP750.</i>	<i>Saylor, Charles Proffer, W. Harold Smith and, Ether-insoluble or gel rubber hydrocarbon, its solution, crystallization, and properties, RP719.</i>	453
<i>Petroleum, nonanaphthene in, RP745.</i>	<i>Scribner, Bourdon F., William F. Meggers and, Second spectrum of hafnium (Hf II), RP732.</i>	625
<i>Photochemical decomposition of silk, RP697.</i>	<i>Shepherd, Martin, Joseph R. Branham and, Critical study of the determination of ethane by explosion with oxygen or air, RP715.</i>	377
<i>Photochemical stability of glass, RP744.</i>	<i>Silica, effect on elasticity of fire-clay brick, RP747.</i>	851
<i>Photoelastic properties of vulcanized rubber, RP751.</i>	<i>—, lead oxide system, RP705.</i>	237
<i>Photometric standards, RP699.</i>	<i>Silk, photochemical decomposition, RP697.</i>	151
<i>Photometry, heterochromatic, RP699.</i>	<i>Smith, Edgar R., Francis A. Smith, Edward W. Washburn and, Fractionation of the isotopes of hydrogen and of oxygen in a commercial electrolyzer, RP729.</i>	599
<i>Photometry, light sources in, RP704.</i>	<i>Smith, Francis A., Edgar R. Smith, Edward W. Washburn and, Fractionation of the isotopes of hydrogen and of oxygen in a commercial electrolyzer, RP729.</i>	599
<i>Pitting of ferrous metals in soils, RP696.</i>	<i>Smith, W. Harold, and Charles Proffer Saylor, Ether-insoluble or gel rubber hydrocarbon, its solution, crystallization, and properties, RP719.</i>	453
<i>Plating, nickel and chromium, on steel (RP712.</i>	<i>— and William L. Holt, Vulcanization and stress-strain behavior of sol, gel, and total rubber hydrocarbon, RP720.</i>	465
<i>Polymerization of olefins, RP740.</i>	<i>Sol, properties, RP696.</i>	125
<i>Pressure, vapor, of water, RP691.</i>	<i>Sol, properties, RP696.</i>	125
<i>Printing papers, lithographic, RP730.</i>	<i>Sol, gel, and total rubber hydrocarbon, RP720.</i>	465
<i>Prototype meter, recomparison of, RP743.</i>	<i>Solar activity, correlation of, with refractivity of air, RP695.</i>	465
<i>Purification of gallium, RP734.</i>	<i>Solarization of glass by ultraviolet, RP744.</i>	111
R	<i>Solution (ether) of rubber, (RP719.</i>	773
<i>Radiation in air as a standard of length, RP695.</i>	<i>Souder, Wilmer, Peter Hidnert, and James Fulton Fox, Autographic thermal expansion apparatus, RP722.</i>	453
<i>Radiation, ultraviolet, solar, of glass, RP744.</i>	<i>Sound absorption, RP700.</i>	465
<i>Radio wave field intensities, RP752.</i>	<i>Spectra of noble gases, RP710.</i>	293
<i>Radium, brightness meter for, RP702.</i>	<i>Spectrochemical analysis of Lovibond glasses, RP718.</i>	433
<i>Records of field intensities at broadcast frequencies, RP752.</i>	<i>Spectrophotometry, light sources, RP704.</i>	211
<i>Reflectometry of diffusing materials, RP704.</i>	<i>Spectrum of hafnium (Hf II), RP732.</i>	625
<i>Refractive index of air, RP695.</i>	<i>Stair, R., W. W. Coblenz and, Ultraviolet transmission changes in glass as a function of the wave length of the radiation stimulus, RP744.</i>	773
<i>Refractivity of normal and heavy water, RP703.</i>	<i>Standard cells, temperature control of, RP739.</i>	699
<i>Refractories, elasticity, at different temperatures, RP747.</i>	<i>Standardization of Lovibond glasses, RP718.</i>	433
<i>Resistance standards, gold-chromium alloys for, RP737.</i>	<i>Standard lamps, RP699.</i>	161
<i>Resistivity, electrical, of sulphuric acid, RP738.</i>	<i>Standard, length, radiation in air as, RP695.</i>	111
<i>Retardation, relative, coefficient of, in rubber, RP751.</i>	<i>Standard sample, benzoic acid, heat of combustion, RP721.</i>	469
<i>Roesser, Wm. F., and James J. Hoffman, Freezing point of gallium, RP735.</i>	<i>Standard wave lengths, RP710.</i>	293
<i>—, L. E. Barbrow, R. F. Caldwell, H. T. Wensel and, Derivation of photometric standards for tungsten-filament lamps, RP699.</i>	<i>Standards, gold-chromium electrical resistance, RP737.</i>	681
<i>Rogers, Jesse S., and Raymond L. Blaine, Investigation of commercial masonry cements, RP746.</i>	<i>Standards of lengths, RP743.</i>	757
<i>Rose, Frank W., Jr., Joseph D. White and, Isolation of a nonanaphthene from an Oklahoma petroleum, RP745.</i>	<i>Standards of opacity, RP709.</i>	281
<i>Rosenberg, Samuel J., and Louis Jordan, Influence of oxide films on the wear of steels, RP708.</i>	<i>Steam, properties, RP691.</i>	1
<i>Rossini, Frederick D., Heats of combustion and of formation of the normal aliphatic alcohols in the gaseous and liquid states, and the energies of their atomic linkages, RP701.</i>	<i>Steam, tables, RP691.</i>	1
<i>—, Heats of combustion and of formation of the normal paraffin hydrocarbons in the gaseous state, and the energies of their atomic linkages, RP692.</i>	<i>Steel, compression tests at elevated temperatures, RP741.</i>	713
<i>Rubber, crystallization, RP717.</i>	<i>Steel, corrosion, RP712.</i>	331
<i>Rubber, forms of, RP717.</i>		
<i>Rubber, heats of combustion, RP713.</i>		
<i>Rubber, hydrocarbon, properties, (RP719.</i>		
<i>Rubber, photoelastic properties, RP751.</i>		
<i>Rubber, properties, RP717.</i>		
<i>Rubber-sulphur compounds, heats of combustion, RP713.</i>		
<i>Running quality of aluminum, RP727.</i>		

Page	Page
Steel, nickel, and chromium plating, tests, RP724	
Steel, tempering and aging, RP707	
Steels, wear of, RP708	
<i>Stimson, H. F., E. F. Mueller and</i> , A temperature-control box for saturated standard cells, RP739	
<i>Strausser, Paul W. C., Abner Brenner, and William Blum</i> , Accelerated tests of nickel and chromium plating on steel, RP724	
—, <i>Abner Brenner, William Blum and</i> , Protective value of nickel and chromium plating on steel, RP712	
Stress-optical coefficient of rubber, RP751	
Stress-strain behavior of rubber hydrocarbon, RP720	
Structural steel, compression tests at elevated temperatures, RP741	
Structures, welded, compression members in, RP698	
Strut fixation, RP698	
Sulphate in wool, RP731	
Sulphur dioxide, critical solution temperatures of some hydrocarbons in, RP728	
Sulphur-rubber compounds, heats of combustion of, RP713	
Sulphur in wool, RP731	
Sulphuric acid, electrical resistivity of, RP738	
System, silica-lead oxide, RP705	
<b>T</b>	
<i>Taylor, J. K., L. W. Tilton and</i> , Refractive index and dispersion of normal and heavy water, RP703	
<i>Taylor, Lauriston S., Fred L. Mohler and</i> , A note on bactericidal effects of X-rays, RP736	
—, <i>Fred L. Mohler and</i> , Ionization of liquid carbon disulphide by X-rays, RP733	
Temperature-brightness relation for black body, RP699	
Temperature control for standard cells, RP739	
Temperatures, critical solution, of some hydrocarbons in sulphur dioxide, RP728	
Temperature-volume relationship of rubber, RP717	
Tempering of carbon steel, RP707	
Terrestrial magnetic field, compensating coils for, RP716	
Textiles, knit underwear, properties, RP711	
Textiles, photochemical decomposition, RP697	
Textiles, wool, determination of sulphur and sulphate in, RP731	
Thermal expansion, autographic apparatus for measuring, RP722	
Thermal expansion of graphite and carbon, RP693	
Thermal expansion of refractories, RP747	
Thermal properties of steam, RP691	
Thermal transmission of underwear fabrics, RP711	
Thermomagnetic analysis studies relating to steel, RP707	
<i>Thibodeau, Wilfred E., and Archibald T. McPherson</i> , Photoelastic properties of soft, vulcanized rubber, RP751	
<i>Thomas, James L.</i> , Gold-chromium resistance alloys, RP737	
<i>Thompson, John G.</i> , Effect of cold-rolling on the indentation hardness of copper, RP742	
<b>U</b>	
<i>Tilton, L. W., and J. K. Taylor</i> , Refractive index and dispersion of normal and heavy water, RP703	207
—, Variations in refractive index of $\text{CO}_2$ -free dry air and a statistical correlation with solar activity, RP695	111
Tintometer glasses, standardization, RP718	433
Transmission (ultraviolet) changes in glass, RP744	773
Transparency standards, RP709	281
Trusses, compression members in, RP698	157
Tungsten-filament lamps, photometric standards for, RP699	161
<b>V</b>	
Ultraviolet transmission changes in glass, RP744	773
Underground corrosion, RP696	125
Underwear fabrics, properties, RP711	311
<b>W</b>	
<i>Washburn, Edward W., Edgar R. Smith and Francis A. Smith</i> , Fractionation of the isotopes of hydrogen and of oxygen in a commercial electrolyzer, RP729	599
Water, heavy, isotopic fractionation, RP729	599
Water of osmotic imbibition in clays, RP706	245
Water, properties of isotopic forms, RP703	207
Water, vapor pressure of, RP691	1
Wave length measurements of hafnium ( $\text{Hf}^{18}$ ), RP732	625
Wave lengths, standard, RP710	293
Wear of steels, RP708	267
<i>Weber, Charles G.</i> , Relation of paper properties to register in offset lithography, RP730	609
Welded structures, compression members in, RP698	157
<i>Wensel, H. T., Wm. F. Roeser, L. E. Barbow, and F. R. Caldwell</i> , Derivation of photometric standards for tungsten-filament lamps, RP699	161
<i>White, Joseph D., and Frank W. Rose, Jr.</i> , Isolation of nonanaphene from an Oklahoma petroleum, RP745	799
Wind-tunnel measurements, RP748	863
—, RP749	871
Wool, sulphur and sulphate in, RP731	617
<i>Worner, Ruby K., Charles H. Hamlin and</i> , Properties of knit underwear fabrics of various constructions, RP711	31
<b>X</b>	
Xenon, interference measurements, RP710	293
X-rays, bactericidal effect, RP736	677
X-rays, ionization of liquids by, RP733	659
Xylose, preparation, RP723	515
<b>Z</b>	
Zeeman effect, hafnium ( $\text{Hf}^{18}$ ), RP732	625









